

# **Michigan Behavioral Risk Factor Surveillance System**

## **Selected Tables from the 1999 Survey**

**Michigan Department of Community Health  
Health Administration  
Bureau of Epidemiology  
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517-335-9080**

<b>End of Life Issues</b> Michigan Adults, 1999 (in percentages with 95% confidence interval limits)				
Demographic Characteristics	Prepared any Legal Documents <sup>1</sup>	Ever Heard of Hospice <sup>2</sup>	Insurance Cover Hospice Care <sup>3</sup>	Right to Refuse Medical Treatment <sup>4</sup>
<b>TOTAL</b>	<b>29.3 ± 1.9</b>	<b>84.6 ± 1.6</b>	<b>36.5 ± 2.3</b>	<b>74.0 ± 1.9</b>
<b>AGE</b>				
18-24 Years	14.3 ± 4.7	64.7 ± 6.6	29.9 ± 8.4	74.6 ± 6.1
25-34 Years	17.6 ± 3.7	83.7 ± 3.5	36.9 ± 5.5	73.0 ± 4.3
35-44 Years	20.8 ± 3.6	90.4 ± 2.8	38.7 ± 4.9	81.0 ± 3.5
45-54 Years	29.6 ± 4.6	87.8 ± 3.6	35.2 ± 5.3	77.0 ± 4.4
55-64 Years	42.7 ± 6.2	89.0 ± 4.4	36.1 ± 6.4	73.4 ± 5.5
65-74 Years	53.7 ± 6.6	89.9 ± 4.1	45.2 ± 7.1	64.2 ± 6.4
75 + Years	60.1 ± 7.7	83.4 ± 5.9	28.5 ± 7.6	61.5 ± 7.5
<b>GENDER</b>				
Male	28.5 ± 3.0	77.8 ± 2.9	36.9 ± 3.7	72.4 ± 3.0
Female	30.0 ± 2.5	90.8 ± 1.6	36.2 ± 3.0	75.5 ± 2.4
<b>RACE</b>				
White	30.5 ± 2.1	88.1 ± 1.6	35.5 ± 2.5	74.8 ± 2.0
Black	21.1 ± 5.1	64.2 ± 6.3	46.9 ± 8.3	71.0 ± 6.0
<b>EDUCATION</b>				
Less than High School	32.2 ± 6.6	70.1 ± 6.9	35.1 ± 8.8	66.1 ± 6.7
High School Graduate	28.5 ± 3.4	79.3 ± 3.3	36.3 ± 4.2	70.0 ± 3.5
Some College	29.1 ± 3.5	88.7 ± 2.6	36.9 ± 4.2	77.4 ± 3.2
College Graduate	29.6 ± 3.7	91.6 ± 2.2	36.7 ± 4.2	78.3 ± 3.4
<b>HOUSEHOLD INCOME</b>				
<\$20,000	26.4 ± 4.6	82.3 ± 4.2	29.5 ± 6.3	71.0 ± 4.9
\$20,000-34,999	28.2 ± 3.9	78.9 ± 3.9	35.7 ± 5.0	72.0 ± 4.1
\$35,000-49,999	28.2 ± 4.8	87.8 ± 3.8	44.2 ± 5.8	75.3 ± 4.6
\$50,000-74,999	25.7 ± 4.6	91.6 ± 3.0	38.9 ± 5.5	76.8 ± 4.5
\$75,000	33.7 ± 5.5	90.1 ± 3.6	35.7 ± 5.9	79.5 ± 4.7
<sup>1</sup> “Have you prepared any legal documents that would help your family make health care decisions for you if you were to become unable to make decisions for yourself?” <sup>2</sup> “Have you ever heard of hospice care?” <sup>3</sup> “Would your current health insurance cover the cost of hospice care?” “Don’t know” was considered a valid answer (52.5%). Among those with health insurance. <sup>4</sup> “From anything you may have heard or read, do people in Michigan have the right to refuse medical treatment, even if it might hasten their death?” “Don’t know” was considered a valid answer (16.8%).				

<b>Health Care Access</b> Michigan Adults, 1999 (in percentages with 95% confidence interval limits)	
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Demographic Characteristics	Had Health Care Coverage Ages 18+ <sup>1</sup>			Cost Prevented Doctor Visit <sup>2</sup>			Routine Checkup in Last Year <sup>3</sup>		
<b>TOTAL</b>	<b>91.9</b>	<b>±</b>	<b>1.2</b>	<b>7.8</b>	<b>±</b>	<b>1.1</b>	<b>72.1</b>	<b>±</b>	<b>1.9</b>
<b>AGE</b>									
18-24 Years	83.9	±	4.9	11.3	±	4.3	65.3	±	6.5
25-34 Years	88.7	±	3.1	10.1	±	2.8	63.1	±	4.7
35-44 Years	89.7	±	2.8	7.9	±	2.4	64.0	±	4.3
45-54 Years	96.3	±	1.9	7.5	±	2.6	73.5	±	4.5
55-64 Years	94.3	±	3.0	5.6	±	2.6	82.3	±	4.8
65-74 Years	100.0	±	0.0	5.0	±	2.7	90.0	±	3.6
75+ Years	97.7	±	1.3	2.9	±	2.9	89.1	±	4.8
<b>GENDER</b>									
Male	91.7	±	1.9	6.4	±	1.6	64.4	±	3.2
Female	92.2	±	1.5	9.1	±	1.6	79.2	±	2.3
<b>RACE</b>									
White	93.1	±	1.2	6.9	±	1.2	69.8	±	2.2
Black	86.2	±	4.5	11.9	±	4.1	85.1	±	4.4
<b>EDUCATION</b>									
Less than High School	85.0	±	5.3	15.8	±	4.9	78.7	±	5.9
High School Graduate	89.9	±	2.4	8.2	±	2.1	70.7	±	3.5
Some College	91.3	±	2.2	8.5	±	2.2	71.1	±	3.6
College Graduate	98.0	±	1.0	3.6	±	1.4	72.7	±	3.7
<b>HOUSEHOLD INCOME</b>									
<\$20,000	83.9	±	4.0	18.5	±	4.1	74.8	±	4.9
\$20,000-34,999	88.9	±	3.0	11.3	±	2.9	71.6	±	4.0
\$35,000-49,999	92.8	±	2.9	5.5	±	2.5	70.8	±	4.9
\$50,000-74,999	97.6	±	1.7	2.5	±	1.5	67.6	±	5.1
\$75,000	98.8	±	1.1	2.2	±	1.6	72.3	±	5.3

<sup>1</sup> Proportion of respondents aged 18 and older who reported they had any kind of health care coverage.  
<sup>2</sup> Proportion of respondents who reported that there was a time during the previous 12 months when they needed to see a doctor but could not because of the cost.  
<sup>3</sup> Proportion of respondents who reported that they had a routine checkup within the past year.

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<sup>3</sup> Proportion of respondents who reported that they had a routine checkup within the past year.

<b>Health Status</b> Michigan Adults, 1999 (percentages and means, with 95% confidence interval limits)				
Demographic Characteristics	General Health Fair or Poor <sup>1</sup> (percentage)	Physical Health Poor <sup>2</sup> (mean days)	Mental Health Poor <sup>3</sup> (mean days)	Limited Activity <sup>4</sup> (mean days)
<b>TOTAL</b>	<b>11.7 ± 1.3</b>	<b>3.4 ± 0.4</b>	<b>3.4 ± 0.4</b>	<b>1.8 ± 0.2</b>
<b>AGE</b>				
18-24 Years	6.7 ± 3.3	2.3 ± 0.8	4.0 ± 0.8	1.4 ± 0.6
25-34 Years	5.6 ± 2.1	2.4 ± 0.6	3.9 ± 0.6	1.5 ± 0.4
35-44 Years	7.0 ± 2.4	2.6 ± 0.6	3.7 ± 0.6	1.2 ± 0.4
45-54 Years	13.5 ± 3.2	3.7 ± 0.8	4.1 ± 0.8	2.5 ± 0.6
55-64 Years	18.0 ± 4.7	4.4 ± 1.2	2.8 ± 0.8	1.8 ± 0.8
65-74 Years	19.3 ± 5.1	4.9 ± 1.2	1.4 ± 0.6	1.7 ± 0.8
75+ Years	27.0 ± 6.5	6.0 ± 1.6	2.4 ± 0.2	3.0 ± 1.2
<b>GENDER</b>				
Male	9.5 ± 1.8	2.8 ± 0.4	2.5 ± 0.4	1.5 ± 0.4
Female	13.7 ± 1.9	3.9 ± 0.4	4.3 ± 0.4	2.0 ± 0.4
<b>RACE</b>				
White	9.9 ± 1.3	3.4 ± 0.4	3.2 ± 0.4	1.6 ± 0.2
Black	21.2 ± 5.2	3.5 ± 1.0	4.7 ± 1.2	2.7 ± 0.8
<b>EDUCATION</b>				
Less than High School	30.5 ± 6.4	6.3 ± 1.6	4.2 ± 1.2	3.5 ± 1.2
High School Graduate	13.8 ± 2.5	3.5 ± 0.6	3.8 ± 0.6	1.9 ± 0.4
Some College	9.7 ± 2.2	3.5 ± 0.6	3.7 ± 0.6	1.9 ± 0.4
College Graduate	4.0 ± 1.5	2.0 ± 0.4	2.4 ± 0.4	0.9 ± 0.2
<b>HOUSEHOLD INCOME</b>				
<\$20,000	24.4 ± 4.4	5.2 ± 1.0	5.0 ± 1.0	3.6 ± 0.8
\$20,000-34,999	13.7 ± 3.1	4.3 ± 0.8	4.4 ± 0.8	2.1 ± 0.6
\$35,000-49,999	9.9 ± 3.3	3.0 ± 0.8	2.3 ± 0.6	1.4 ± 0.6
\$50,000-74,999	4.5 ± 2.1	2.0 ± 0.6	3.3 ± 0.8	1.1 ± 0.4
\$75,000	2.3 ± 1.7	1.6 ± 0.4	2.5 ± 0.6	0.8 ± 0.4
<sup>1</sup> Proportion of respondents who said that their health, in general, was fair or poor. <sup>2</sup> Mean number of days during the past 30 days in which physical health (including illness and injury) was not good. <sup>3</sup> Mean number of days during the past 30 days in which mental health (including stress, depression, and problems with emotions) was not good. <sup>4</sup> Mean number of days during the past 30 days in which poor physical or mental health kept respondent from doing usual activities, such as self-care, work, or recreation.				

<b>Diabetes</b> Michigan Adults, 1999 (in percentages with 95% confidence interval limits)			
Demographic Characteristics	Ever Told Have Diabetes <sup>1</sup>		
<b>TOTAL</b>	<b>5.6</b>	<b>±</b>	<b>0.9</b>
<b>AGE</b>			
18-34 Years	0.9	±	0.6
35-54 Years	4.0	±	1.3
55+ Years	13.1	±	2.6
<b>GENDER</b>			
Male	6.3	±	1.5
Female	4.9	±	1.2
<b>RACE</b>			
White	4.7	±	1.0
Black	9.1	±	3.5
<b>EDUCATION</b>			
Less than High School	13.9	±	4.8
High School Graduate	5.1	±	1.6
Some College	3.7	±	1.4
College Graduate	4.6	±	1.7
<b>HOUSEHOLD INCOME</b>			
<\$20,000	9.3	±	3.2
\$20,000-34,999	7.0	±	2.2
\$35,000-49,999	3.2	±	1.7
\$50,000-74,999	3.6	±	1.9
≥\$75,000	3.7	±	2.2
<sup>1</sup> Proportion of respondents who reported that they had ever been told by a doctor that they had diabetes (gestational diabetes excluded).			

<b>Cigarette Smoking Status</b> Michigan Adults, 1999 (in percentages with 95% confidence interval limits)			
Demographic Characteristics	Current Smoker <sup>1</sup>	Former Smoker <sup>2</sup>	Never Smoked
<b>TOTAL</b>	<b>25.7 ± 1.9</b>	<b>23.4 ± 1.8</b>	<b>50.9 ± 2.1</b>
<b>AGE</b>			
18-24 Years	33.4 ± 6.4	8.4 ± 3.6	58.2 ± 6.6
25-34 Years	28.9 ± 4.4	11.9 ± 3.1	59.2 ± 4.7
35-44 Years	34.1 ± 4.3	18.2 ± 3.5	47.7 ± 4.5
45-54 Years	25.2 ± 4.3	29.6 ± 4.6	45.2 ± 5.0
55-64 Years	19.1 ± 4.9	36.8 ± 6.0	44.1 ± 6.2
65-74 Years	13.0 ± 4.5	39.9 ± 6.5	47.1 ± 6.6
75+ Years	5.6 ± 3.8	40.5 ± 7.5	53.9 ± 7.6
<b>GENDER</b>			
Male	27.5 ± 3.0	26.6 ± 2.9	45.9 ± 3.3
Female	23.9 ± 2.4	20.5 ± 2.2	55.6 ± 2.7
<b>RACE</b>			
White	25.3 ± 2.0	24.3 ± 2.0	50.4 ± 2.3
Black	28.5 ± 5.8	19.3 ± 5.2	52.2 ± 6.3
<b>EDUCATION</b>			
Less than High School	36.8 ± 6.9	24.6 ± 6.2	38.6 ± 6.7
High School Graduate	30.5 ± 3.5	24.3 ± 3.2	45.2 ± 3.7
Some College	28.0 ± 3.5	22.6 ± 3.2	49.4 ± 3.9
College Graduate	13.1 ± 2.7	22.8 ± 3.4	64.1 ± 3.9
<b>HOUSEHOLD INCOME</b>			
<\$20,000	30.9 ± 4.9	20.7 ± 4.3	48.4 ± 5.4
\$20,000-34,999	28.7 ± 4.1	25.4 ± 3.8	45.9 ± 4.4
\$35,000-49,999	29.5 ± 5.0	21.1 ± 4.2	49.4 ± 5.4
\$50,000-74,999	23.4 ± 4.5	20.0 ± 4.2	56.6 ± 5.3
≥\$75,000	16.0 ± 4.3	26.4 ± 5.1	57.6 ± 5.8
<sup>1</sup> Proportion of respondents who reported that they had ever smoked at least 100 cigarettes in their life and that they smoke cigarettes now. <sup>2</sup> Proportion of respondents who reported that they had ever smoked at least 100 cigarettes in their life but that they do not smoke cigarettes now.			

<b>Cigarettes Smoked per Day</b> Michigan Adults Who Currently Smoke Cigarettes, 1999 <sup>1</sup> (in percentages and means with 95% confidence interval limits)				
Demographic Characteristics	1-19 Cigarettes Per Day (percentage)	20-39 Cigarettes Per Day (percentage)	40+ Cigarettes Per Day (percentage)	Number of Cigarettes Per Day (mean)
<b>TOTAL</b>	<b>52.3 ± 4.3</b>	<b>42.6 ± 4.3</b>	<b>5.1 ± 2.0</b>	<b>16.1 ± 0.8</b>
<b>AGE</b>				
18-34 Years	61.0 ± 7.0	37.9 ± 7.0	1.1 ± 1.4	13.8 ± 1.2
35-54 Years	46.5 ± 6.2	44.2 ± 6.1	9.3 ± 3.9	18.0 ± 1.4
55+ Years	46.9 ± 10.8	50.3 ± 10.8	2.8 ± 2.5	16.6 ± 2.0
<b>GENDER</b>				
Male	45.4 ± 6.4	48.3 ± 6.4	6.3 ± 3.1	17.4 ± 1.4
Female	59.6 ± 5.6	36.6 ± 5.4	3.8 ± 2.4	14.7 ± 1.2
<b>RACE</b>				
White	49.8 ± 4.7	45.3 ± 4.7	4.9 ± 2.1	16.5 ± 1.0
Black	65.1 ± 12.2	28.3 ± 11.6	6.6 ± 6.8	14.4 ± 2.5
<b>EDUCATION</b>				
Less than High School	47.8 ± 12.1	46.3 ± 12.2	5.9 ± 6.5	17.1 ± 2.5
High School Graduate	46.5 ± 6.9	47.1 ± 6.9	6.4 ± 3.7	17.6 ± 1.1
Some College	59.1 ± 7.3	36.6 ± 7.1	4.3 ± 2.6	15.0 ± 1.1
College Graduate	57.0 ± 11.3	40.5 ± 11.3	2.5 ± 3.0	13.5 ± 2.2
<b>HOUSEHOLD INCOME</b>				
<\$20,000	47.8 ± 9.5	49.1 ± 9.6	3.1 ± 3.3*	16.7 ± 1.6
\$20,000-34,999	57.3 ± 8.3	40.1 ± 8.3	2.6 ± 2.3	14.8 ± 1.4
\$35,000-49,999	42.0 ± 10.0	51.2 ± 10.3	6.8 ± 5.8	18.1 ± 2.4
\$50,000-74,999	55.2 ± 11.0	40.4 ± 10.8	4.4 ± 4.4	15.5 ± 2.2
\$75,000	52.0 ± 15.0	34.6 ± 14.1	13.4 ± 9.8	17.4 ± 3.5
<sup>1</sup> n=644 Current Smokers. * Confidence interval (95%) exceeds range of possible estimates.				

(in percentages and means with 95% confidence interval limits)

<sup>2</sup> n=498 Current daily smokers was defined as respondents who smoked at least 100 cigarettes in their lifetime and currently smoke everyday.



<b>Weight Status<sup>1</sup></b> Michigan Adults, 1999 (in percentages with 95% confidence interval limits)			
Demographic Characteristics	Overweight	Healthy Range	Underweight
<b>TOTAL</b>	<b>36.8 ± 2.1</b>	<b>58.8 ± 2.2</b>	<b>4.4 ± 0.9</b>
<b>AGE</b>			
18-24 Years	17.7 ± 5.5	70.4 ± 6.4	11.9 ± 4.4
25-34 Years	32.7 ± 4.8	63.5 ± 4.9	3.8 ± 1.8
35-44 Years	36.4 ± 4.4	59.7 ± 4.5	3.9 ± 1.7
45-54 Years	46.5 ± 5.2	51.7 ± 5.2	1.8 ± 1.4
55-64 Years	52.3 ± 6.3	46.3 ± 6.3	1.4 ± 1.4
65-74 Years	44.5 ± 6.6	52.3 ± 6.7	3.2 ± 2.7
75+ Years	25.8 ± 6.7	68.0 ± 7.3	6.2 ± 4.1
<b>GENDER</b>			
Male	38.9 ± 3.2	57.1 ± 3.3	4.0 ± 1.3
Female	34.9 ± 2.7	60.4 ± 2.8	4.7 ± 1.3
<b>RACE</b>			
White	35.5 ± 2.3	59.8 ± 2.3	4.7 ± 1.1
Black	48.8 ± 6.5	48.8 ± 6.5	2.4 ± 1.8
<b>EDUCATION</b>			
Less than High School	42.3 ± 7.0	55.7 ± 7.1	2.0 ± 1.7
High School Graduate	39.6 ± 3.8	55.2 ± 3.8	5.2 ± 1.8
Some College	36.1 ± 3.8	58.8 ± 3.9	5.1 ± 1.8
College Graduate	32.2 ± 3.9	64.3 ± 4.0	3.5 ± 1.5
<b>HOUSEHOLD INCOME</b>			
<\$20,000	40.2 ± 5.4	56.7 ± 5.4	3.1 ± 1.9
\$20,000-34,999	40.0 ± 4.4	55.5 ± 4.5	4.5 ± 1.8
\$35,000-49,999	37.5 ± 5.2	58.3 ± 5.4	4.2 ± 2.3
\$50,000-74,999	35.2 ± 5.2	61.6 ± 5.3	3.2 ± 1.9
≥\$75,000	34.3 ± 2.6	61.2 ± 5.7	4.5 ± 2.6
<sup>1</sup> Prevalence estimates for weight status were based on body mass index (BMI) as calculated from the self-reported weight and height measurements. Body mass index is defined as weight (in kilograms) divided by height (in meters) squared [weight in kg/(height in meters) <sup>2</sup> ]. Weight status categories were defined as follows: Overweight: (≥85th percentile) ≥27.8 BMI for males and ≥27.3 BMI for females; Healthy Weight: (>15th and <85th percentile) >20.7 to <27.8 BMI for males and >19.1 to <27.3 BMI for females; Underweight: (<15th percentile) <20.7 BMI for males and <19.1 BMI for females. Pregnant women were excluded from this analysis.			

<b>Clinical Breast Exam</b> Women 20 Years of Age and Older <sup>1</sup> Michigan, 1999 (in percentages with 95% confidence interval limits)		
Demographic Characteristics	Ever Had Clinical Breast Exam	Had Appropriately-timed Screening Clinical Breast Exam <sup>2</sup>
<b>TOTAL</b>	<b>92.5      ±    1.6</b>	<b>77.7      ±    2.4</b>
<b>AGE</b>		
20-29 Years	82.9      ±    5.6	80.0      ±    6.0
30-39 Years	94.2      ±    2.8	87.4      ±    3.9
40-49 Years	98.9      ±    1.1	78.2      ±    5.2
50-59 Years	96.4      ±    3.0	76.3      ±    6.7
60-69 Years	95.5      ±    3.2	79.8      ±    6.8
70 + Years	86.3      ±    5.4	58.5      ±    7.7
<b>RACE</b>		
White	92.8      ±    1.7	77.9      ±    2.6
Black	92.7      ±    4.0	79.1      ±    6.7
<b>EDUCATION</b>		
Less than High School	89.0      ±    5.7	59.7      ±    9.7
High School Graduate	91.8      ±    2.6	72.2      ±    4.5
Some College	90.4      ±    3.3	79.6      ±    4.2
College Graduate	97.7      ±    1.6	89.5      ±    3.4
<b>HOUSEHOLD INCOME</b>		
<\$20,000	85.7      ±    4.5	63.0      ±    6.4
\$20,000-34,999	92.6      ±    3.3	76.5      ±    5.1
\$35,000-49,999	94.5      ±    3.4	80.5      ±    5.9
\$50,000-74,999	96.8      ±    2.8	83.8      ±    5.7
≥\$75,000	98.9      ±    2.2	92.7      ±    4.4
<sup>1</sup> n=1426 women aged 20 or older. <sup>2</sup> Proportion of female respondents 20 years of age and older whose last clinical breast exam was within the previous three years for women 20-39 years and within the previous year for women 40 years of age and older. Respondents whose last clinical breast exam was done because of breast cancer or other breast problems were not included in this analysis.		

Leisure-Time Physical Activity									
Michigan Adults, 1999									
(in percentages with 95% confidence interval limits)									
Demographic Characteristics	No Activity <sup>1</sup>			<3 times per week 20 minute sessions <sup>2</sup>			<5 times per week 30 minute sessions <sup>3</sup>		
<b>TOTAL</b>	<b>24.4</b>	<b>±</b>	<b>1.8</b>	<b>54.3</b>	<b>±</b>	<b>2.2</b>	<b>76.8</b>	<b>±</b>	<b>1.8</b>
<b>AGE</b>									
18-24 Years	20.6	±	5.4	47.6	±	6.8	73.5	±	6.0
25-34 Years	18.8	±	3.6	49.4	±	4.9	75.8	±	4.2
35-44 Years	22.5	±	3.8	56.7	±	4.5	79.9	±	3.6
45-54 Years	24.0	±	4.3	56.0	±	5.1	79.4	±	4.1
55-64 Years	31.1	±	5.8	58.8	±	6.1	77.8	±	5.1
65-74 Years	28.9	±	6.1	51.8	±	6.7	67.1	±	6.2
75+ Years	36.6	±	7.3	64.0	±	7.3	80.6	±	6.0
<b>GENDER</b>									
Male	22.0	±	2.7	54.7	±	3.3	75.4	±	2.8
Female	26.5	±	2.5	53.9	±	2.8	78.2	±	2.3
<b>RACE</b>									
White	22.9	±	1.9	53.0	±	2.4	76.5	±	2.0
Black	34.4	±	6.0	63.2	±	6.1	80.7	±	5.0
<b>EDUCATION</b>									
Less than High School	33.6	±	6.6	63.9	±	6.8	77.9	±	5.8
High School Graduate	30.3	±	3.4	62.9	±	3.7	80.3	±	3.0
Some College	24.6	±	3.3	50.1	±	3.9	73.9	±	3.5
College Graduate	13.5	±	2.8	45.1	±	4.1	75.6	±	3.4
<b>HOUSEHOLD INCOME</b>									
<\$20,000	36.4	±	5.1	59.1	±	5.4	75.7	±	4.8
\$20,000-34,999	26.9	±	3.9	60.6	±	4.4	79.1	±	3.6
\$35,000-49,999	21.7	±	4.5	51.8	±	5.4	75.7	±	4.6
\$50,000-74,999	18.7	±	4.1	49.0	±	5.4	77.2	±	4.4
≥\$75,000	13.1	±	2.9	41.6	±	5.8	73.2	±	5.1

<sup>1</sup> Proportion of respondents who said they did not participate in any physical activities, recreation, or exercises in their leisure time (such as running, golf, or walking for exercise) within the past month.

<sup>2</sup> Proportion of respondents who said they did not participate in leisure-time physical activities (such as running, golf, or walking for exercise) three or more times per week for a minimum of 20 minutes per session, within the past month.

<sup>3</sup> Proportion of respondents who said they did not engage in leisure-time physical activity (such as running, golf, or walking for exercise) for a minimum of 30 minutes 5 times per week, within the past month.

Leisure-Time Physical Activity									
Michigan Adults, 1999									
(in percentages with 95% confidence interval limits)									
Demographic Characteristics	No Activity <sup>1</sup>			<3 times per week 20 minute sessions <sup>2</sup>			<5 times per week 30 minute sessions <sup>3</sup>		
<b>TOTAL</b>	<b>24.4</b>	<b>±</b>	<b>1.8</b>	<b>54.3</b>	<b>±</b>	<b>2.2</b>	<b>76.8</b>	<b>±</b>	<b>1.8</b>
<b>AGE</b>									
18-24 Years	20.6	±	5.4	47.6	±	6.8	73.5	±	6.0
25-34 Years	18.8	±	3.6	49.4	±	4.9	75.8	±	4.2
35-44 Years	22.5	±	3.8	56.7	±	4.5	79.9	±	3.6
45-54 Years	24.0	±	4.3	56.0	±	5.1	79.4	±	4.1
55-64 Years	31.1	±	5.8	58.8	±	6.1	77.8	±	5.1
65-74 Years	28.9	±	6.1	51.8	±	6.7	67.1	±	6.2
75+ Years	36.6	±	7.3	64.0	±	7.3	80.6	±	6.0
<b>GENDER</b>									
Male	22.0	±	2.7	54.7	±	3.3	75.4	±	2.8
Female	26.5	±	2.5	53.9	±	2.8	78.2	±	2.3
<b>RACE</b>									
White	22.9	±	1.9	53.0	±	2.4	76.5	±	2.0
Black	34.4	±	6.0	63.2	±	6.1	80.7	±	5.0
<b>EDUCATION</b>									
Less than High School	33.6	±	6.6	63.9	±	6.8	77.9	±	5.8
High School Graduate	30.3	±	3.4	62.9	±	3.7	80.3	±	3.0
Some College	24.6	±	3.3	50.1	±	3.9	73.9	±	3.5
College Graduate	13.5	±	2.8	45.1	±	4.1	75.6	±	3.4
<b>HOUSEHOLD INCOME</b>									
<\$20,000	36.4	±	5.1	59.1	±	5.4	75.7	±	4.8
\$20,000-34,999	26.9	±	3.9	60.6	±	4.4	79.1	±	3.6
\$35,000-49,999	21.7	±	4.5	51.8	±	5.4	75.7	±	4.6
\$50,000-74,999	18.7	±	4.1	49.0	±	5.4	77.2	±	4.4
\$75,000	13.1	±	2.9	41.6	±	5.8	73.2	±	5.1

<sup>1</sup> Proportion of respondents who said they did not participate in any physical activities, recreation, or exercises in their leisure time (such as running, golf, or walking for exercise) within the past month.

<sup>2</sup> Proportion of respondents who said they did not participate in leisure-time physical activities (such as running, golf, or walking for exercise) three or more times per week for a minimum of 20 minutes per session, within the past month.

<sup>3</sup> Proportion of respondents who said they did not engage in leisure-time physical activity (such as running, golf, or walking for exercise) for a minimum of 30 minutes 5 times per week, within the past month.

Leisure-Time Physical Activity									
Michigan Adults, 1999									
(in percentages with 95% confidence interval limits)									
Demographic Characteristics	No Activity <sup>1</sup>			<3 times per week 20 minute sessions <sup>2</sup>			<5 times per week 30 minute sessions <sup>3</sup>		
<b>TOTAL</b>	<b>24.4</b>	<b>±</b>	<b>1.8</b>	<b>54.3</b>	<b>±</b>	<b>2.2</b>	<b>76.8</b>	<b>±</b>	<b>1.8</b>
<b>AGE</b>									
18-24 Years	20.6	±	5.4	47.6	±	6.8	73.5	±	6.0
25-34 Years	18.8	±	3.6	49.4	±	4.9	75.8	±	4.2
35-44 Years	22.5	±	3.8	56.7	±	4.5	79.9	±	3.6
45-54 Years	24.0	±	4.3	56.0	±	5.1	79.4	±	4.1
55-64 Years	31.1	±	5.8	58.8	±	6.1	77.8	±	5.1
65-74 Years	28.9	±	6.1	51.8	±	6.7	67.1	±	6.2
75+ Years	36.6	±	7.3	64.0	±	7.3	80.6	±	6.0
<b>GENDER</b>									
Male	22.0	±	2.7	54.7	±	3.3	75.4	±	2.8
Female	26.5	±	2.5	53.9	±	2.8	78.2	±	2.3
<b>RACE</b>									
White	22.9	±	1.9	53.0	±	2.4	76.5	±	2.0
Black	34.4	±	6.0	63.2	±	6.1	80.7	±	5.0
<b>EDUCATION</b>									
Less than High School	33.6	±	6.6	63.9	±	6.8	77.9	±	5.8
High School Graduate	30.3	±	3.4	62.9	±	3.7	80.3	±	3.0
Some College	24.6	±	3.3	50.1	±	3.9	73.9	±	3.5
College Graduate	13.5	±	2.8	45.1	±	4.1	75.6	±	3.4
<b>HOUSEHOLD INCOME</b>									
<\$20,000	36.4	±	5.1	59.1	±	5.4	75.7	±	4.8
\$20,000-34,999	26.9	±	3.9	60.6	±	4.4	79.1	±	3.6
\$35,000-49,999	21.7	±	4.5	51.8	±	5.4	75.7	±	4.6
\$50,000-74,999	18.7	±	4.1	49.0	±	5.4	77.2	±	4.4
\$\$75,000	13.1	±	2.9	41.6	±	5.8	73.2	±	5.1

<sup>1</sup> Proportion of respondents who said they did not participate in any physical activities, recreation, or exercises in their leisure time (such as running, golf, or walking for exercise) within the past month.

<sup>2</sup> Proportion of respondents who said they did not participate in leisure-time physical activities (such as running, golf, or walking for exercise) three or more times per week for a minimum of 20 minutes per session, within the past month.

<sup>3</sup> Proportion of respondents who said they did not engage in leisure-time physical activity (such as running, golf, or walking for exercise) for a minimum of 30 minutes 5 times per week, within the past month.

Leisure-Time Physical Activity									
Michigan Adults, 1999									
(in percentages with 95% confidence interval limits)									
Demographic Characteristics	No Activity <sup>1</sup>			<3 times per week 20 minute sessions <sup>2</sup>			<5 times per week 30 minute sessions <sup>3</sup>		
<b>TOTAL</b>	<b>24.4</b>	<b>±</b>	<b>1.8</b>	<b>54.3</b>	<b>±</b>	<b>2.2</b>	<b>76.8</b>	<b>±</b>	<b>1.8</b>
<b>AGE</b>									
18-24 Years	20.6	±	5.4	47.6	±	6.8	73.5	±	6.0
25-34 Years	18.8	±	3.6	49.4	±	4.9	75.8	±	4.2
35-44 Years	22.5	±	3.8	56.7	±	4.5	79.9	±	3.6
45-54 Years	24.0	±	4.3	56.0	±	5.1	79.4	±	4.1
55-64 Years	31.1	±	5.8	58.8	±	6.1	77.8	±	5.1
65-74 Years	28.9	±	6.1	51.8	±	6.7	67.1	±	6.2
75+ Years	36.6	±	7.3	64.0	±	7.3	80.6	±	6.0
<b>GENDER</b>									
Male	22.0	±	2.7	54.7	±	3.3	75.4	±	2.8
Female	26.5	±	2.5	53.9	±	2.8	78.2	±	2.3
<b>RACE</b>									
White	22.9	±	1.9	53.0	±	2.4	76.5	±	2.0
Black	34.4	±	6.0	63.2	±	6.1	80.7	±	5.0
<b>EDUCATION</b>									
Less than High School	33.6	±	6.6	63.9	±	6.8	77.9	±	5.8
High School Graduate	30.3	±	3.4	62.9	±	3.7	80.3	±	3.0
Some College	24.6	±	3.3	50.1	±	3.9	73.9	±	3.5
College Graduate	13.5	±	2.8	45.1	±	4.1	75.6	±	3.4
<b>HOUSEHOLD INCOME</b>									
<\$20,000	36.4	±	5.1	59.1	±	5.4	75.7	±	4.8
\$20,000-34,999	26.9	±	3.9	60.6	±	4.4	79.1	±	3.6
\$35,000-49,999	21.7	±	4.5	51.8	±	5.4	75.7	±	4.6
\$50,000-74,999	18.7	±	4.1	49.0	±	5.4	77.2	±	4.4
\$75,000	13.1	±	2.9	41.6	±	5.8	73.2	±	5.1

<sup>1</sup> Proportion of respondents who said they did not participate in any physical activities, recreation, or exercises in their leisure time (such as running, golf, or walking for exercise) within the past month.

<sup>2</sup> Proportion of respondents who said they did not participate in leisure-time physical activities (such as running, golf, or walking for exercise) three or more times per week for a minimum of 20 minutes per session, within the past month.

<sup>3</sup> Proportion of respondents who said they did not engage in leisure-time physical activity (such as running, golf, or walking for exercise) for a minimum of 30 minutes 5 times per week, within the past month.

<sup>1</sup> Proportion of respondents who said they did not participate in any physical activities, recreation, or exercises in their leisure time (such as running, golf, or walking for exercise) within the past month.

<sup>2</sup> Proportion of respondents who said they did not participate in leisure-time physical activities (such as running, golf, or walking for exercise) three or more times per week for a minimum of 20 minutes per session, within the past month.

<sup>3</sup> Proportion of respondents who said they did not engage in leisure-time physical activity (such as running, golf, or walking for exercise) for a minimum of 30 minutes 5 times per week, within the past month.

<b>Mammography</b> Women 40 Years of Age and Older <sup>1</sup> Michigan, 1999 (in percentages with 95% confidence interval limits)			
Demographic Characteristics	Ever Had Mammogram	Mammography Screening in Past Year <sup>2</sup>	Had Both Mammogram and Clinical Breast Screening in Past Year <sup>3</sup>
<b>TOTAL</b>	<b>89.3 ± 2.3</b>	<b>64.6 ± 3.6</b>	<b>57.6 ± 3.7</b>
<b>AGE</b>			
40-49 Years	84.5 ± 3.9	62.8 ± 5.3	57.6 ± 5.4
50-64 Years	97.7 ± 2.2	75.4 ± 7.3	67.5 ± 7.9
65+ Years	91.6 ± 3.4	61.2 ± 6.4	52.1 ± 6.6
<b>RACE</b>			
White	90.2 ± 2.3	64.6 ± 3.9	57.7 ± 4.0
Black	85.1 ± 7.9	63.5 ± 11.1	58.0 ± 11.4
<b>EDUCATION</b>			
Less than High School	88.9 ± 6.8	53.3 ± 11.1	43.4 ± 11.0
High School Graduate	85.0 ± 4.3	58.2 ± 6.2	52.0 ± 6.3
Some College	92.2 ± 3.8	70.0 ± 6.6	61.3 ± 7.1
College Graduate	92.9 ± 3.7	74.4 ± 6.6	70.4 ± 6.9
<b>HOUSEHOLD INCOME</b>			
<\$20,000	88.0 ± 5.3	53.5 ± 8.3	44.4 ± 8.3
\$20,000-34,999	87.4 ± 5.2	63.8 ± 7.6	57.6 ± 7.8
\$35,000-49,999	85.5 ± 6.8	63.8 ± 9.6	57.8 ± 10.0
\$50,000-74,999	85.4 ± 7.4	58.3 ± 11.3	51.1 ± 11.5
\$75,000	95.9 ± 4.4	79.6 ± 8.3	76.9 ± 8.7
<sup>1</sup> n=884 women aged 40 years or older. <sup>2</sup> Proportion of female respondents 40 years and older who reported having had a routine mammogram within the past year. Respondents whose last mammogram was done because of breast cancer or other breast problems were not included in this analysis. <sup>3</sup> Proportion of female respondents aged 40 and older who had both a clinical breast exam and a mammography screening within the previous year.			

<b>Cervical Cancer Screening</b> Women 18 Years of Age and Older <sup>1</sup> Michigan, 1999 (in percentages with 95% confidence interval limits)					
Demographic Characteristics	Ever Had Pap Test			Appropriately-timed Pap Screening Test <sup>2</sup>	
<b>TOTAL</b>	<b>95.0</b>	<b>±</b>	<b>1.3</b>	<b>84.4</b>	<b>± 2.2</b>
<b>AGE</b>					
18-29 Years	84.5	±	5.2	79.4	± 6.0
30-39 Years	97.4	±	2.1	91.0	± 3.5
40-49 Years	100.0	±	0.0	93.1	± 3.3
50-59 Years	99.4	±	1.1*	85.5	± 5.5
60-69 Years	95.6	±	3.1	79.9	± 6.6
70+ Years	94.3	±	3.4	70.4	± 7.1
<b>RACE</b>					
White	95.3	±	1.4	84.5	± 2.3
Black	94.9	±	3.8	85.7	± 6.0
<b>EDUCATION</b>					
Less than High School	93.7	±	3.8	73.7	± 8.3
High School Graduate	94.6	±	2.4	81.3	± 3.9
Some College	92.8	±	2.9	83.4	± 4.0
College Graduate	99.4	±	0.6	94.2	± 2.5
<b>HOUSEHOLD INCOME</b>					
<\$20,000	92.7	±	3.6	75.3	± 5.7
\$20,000-34,999	98.2	±	1.3	87.9	± 3.9
\$35,000-49,999	92.6	±	4.3	84.5	± 5.8
\$50,000-74,999	96.4	±	3.2	87.1	± 5.3
\$75,000	98.7	±	2.2*	96.1	± 3.6
<sup>1</sup> n=1472 women aged 18 and older. <sup>2</sup> Proportion of all female respondents aged 18 and older who had a Pap test within the previous three years. Respondents whose last Pap test was done because of a problem were not included in this analysis. * Confidence interval (95%) exceeds possible limits.					

Adults 18-64 Years of Age<sup>1</sup>  
Michigan, 1999  
(in percentages with 95% confidence interval limits)

<sup>1</sup> n=2033 adults aged 18-64 years.

<sup>2</sup> Proportion of respondents who reported “high” or “medium” to the question “What are your chances of getting infected with HIV, the virus that causes AIDS?” “Don’t know” [0.7% ( $\pm 0.4$ )] was considered a valid response.

<sup>3</sup> Proportion of respondents who said “yes” to the question “Have you ever had your blood tested for HIV?” “Don’t know” [2.7% ( $\pm 0.8$ )] was considered a valid response.

## Attitudes Toward Condom Use and AIDS Education

Adults 18-64 Years of Age<sup>1</sup>

Michigan, 1999

(in percentages with 95% confidence interval limits)

Demographic Characteristics	Mean Grade for AIDS Education <sup>2</sup>			Encourage Condom Use Among Sexually Active Teens <sup>3</sup>		
<b>TOTAL</b>	<b>4.8</b>	<b>±</b>	<b>0.2</b>	<b>88.5</b>	<b>±</b>	<b>1.5</b>
AGE						
18-24 Years	5.0	±	0.4	94.2	±	3.1
25-34 Years	4.5	±	0.2	90.7	±	2.9
35-44 Years	4.9	±	0.2	88.8	±	2.9
45-54 Years	5.2	±	0.2	86.3	±	3.6
55-64 Years	4.6	±	0.4	81.1	±	4.9
GENDER						
Male	5.3	±	0.2	87.9	±	2.4
Female	4.4	±	0.2	89.9	±	1.9
RACE						
White	4.9	±	0.2	89.1	±	1.6
Black	4.5	±	0.4	89.0	±	4.4
EDUCATION						
Less than High School	4.9	±	0.4	88.3	±	5.6
High School Graduate	5.1	±	0.2	89.1	±	2.6
Some College	4.6	±	0.2	89.4	±	2.6
College Graduate	4.9	±	0.2	87.0	±	3.0
HOUSEHOLD INCOME						
<\$20,000	4.4	±	0.2	90.7	±	4.0
\$20,000-34,999	4.8	±	0.4	91.1	±	2.7
\$35,000-49,999	4.9	±	0.2	87.6	±	3.7
\$50,000-74,999	5.0	±	0.2	89.6	±	3.3
≥\$75,000	4.9	±	0.2	90.6	±	3.5

<sup>1</sup> n=2033 adults aged 18-64 years.

<sup>2</sup> Of the respondents who indicated that children should receive HIV/AIDS education, the mean grade at which this education should be received.

<sup>3</sup> Proportion of respondents who reported that if they had a teenager who was sexually active they would encourage him or her to use a condom. "Don't know" [1.2% (±0.5)] and "Would give other advice" [7.3% (±1.2)] were considered valid responses.

<b>Immunization Indicators</b> Adults 65 Years and Older, 1999 <sup>1</sup> (in percentages with 95% confidence interval limits)		
Demographic Characteristics	Had Flu Shot In Past Year <sup>2</sup>	Ever Had Pneumonia Vaccination <sup>3</sup>
<b>TOTAL</b>	<b>69.9 ± 4.6</b>	<b>57.4 ± 5.0</b>
<b>GENDER</b>		
Male	73.5 ± 7.2	56.1 ± 8.3
Female	67.4 ± 5.9	58.3 ± 6.2
<b>RACE</b>		
White	72.3 ± 4.6	58.9 ± 5.2
Black	50.1 ± 18.3	43.4 ± 18.5
<b>EDUCATION</b>		
Less than High School	66.9 ± 10.4	58.8 ± 11.1
High School Graduate	68.1 ± 7.3	53.9 ± 7.8
Some College	68.5 ± 9.8	57.8 ± 10.5
College Graduate	79.8 ± 9.8	65.2 ± 12.0
<sup>1</sup> n=488 Respondents aged 65 years and older. <sup>2</sup> Proportion of respondents 65 years or older who reported having had a flu shot during the previous 12 months. <sup>3</sup> Proportion of respondents 65 years or older who reported ever having had a pneumonia vaccination.		



(in percentages with 95% confidence interval limits)

<sup>1</sup> Proportion of respondents who reported having had their blood pressure checked within the past two years.

<sup>2</sup> Among all respondents, the proportion who reported that they had ever been told by a health professional that their blood pressure was high.

<sup>3</sup> Among all respondents, the proportion who had been told on more than one occasion that their blood pressure was high.

Cholesterol Indicators									
Michigan Adults, 1999									
(in percentages with 95% confidence interval limits)									
Demographic Characteristics	Cholesterol Ever Checked <sup>1</sup>			Checked Within Past Five Years <sup>2</sup>			Ever Told Cholesterol Was High <sup>3</sup>		
TOTAL	76.3	±	1.9	71.1	±	2.0	32.1	±	2.3
AGE									
18-24 Years	38.0	±	6.6	33.6	±	6.5	8.7	±	5.9
25-34 Years	60.9	±	4.8	55.4	±	4.9	14.9	±	4.3
35-44 Years	79.1	±	3.7	71.3	±	4.1	23.3	±	4.4
45-54 Years	86.8	±	3.5	81.6	±	4.0	40.3	±	5.3
55-64 Years	94.1	±	3.0	90.8	±	3.6	47.3	±	6.4
65-74 Years	94.8	±	2.8	91.8	±	3.4	47.3	±	6.8
75+ Years	95.9	±	2.5	91.7	±	4.0	38.6	±	7.6
GENDER									
Male	73.5	±	3.0	66.5	±	3.2	31.6	±	3.5
Female	78.9	±	2.4	75.2	±	2.5	32.5	±	2.9
RACE									
White	77.0	±	2.1	71.0	±	2.2	32.9	±	2.5
Black	73.8	±	5.6	71.8	±	5.8	27.1	±	6.6
EDUCATION									
Less than High School	69.8	±	6.7	66.5	±	6.9	43.4	±	8.3
High School Graduate	72.5	±	3.5	66.6	±	3.6	34.4	±	4.2
Some College	73.8	±	3.6	68.9	±	3.7	30.4	±	4.1
College Graduate	86.1	±	2.8	80.2	±	3.3	28.6	±	4.0
HOUSEHOLD INCOME									
<\$20,000	70.1	±	5.2	64.7	±	5.4	38.2	±	6.1
\$20,000-34,999	72.3	±	4.2	66.8	±	4.4	34.0	±	4.8
\$35,000-49,999	76.3	±	4.7	70.9	±	5.0	31.1	±	5.7
\$50,000-74,999	78.5	±	4.5	71.4	±	4.9	25.6	±	5.2
\$\$75,000	87.3	±	4.0	83.0	±	4.5	29.5	±	5.6
<sup>1</sup> Proportion of respondents who reported ever having had their cholesterol checked.									
<sup>2</sup> Proportion of respondents who reported having had their cholesterol checked within the previous five years.									
<sup>3</sup> Of respondents who had ever had their cholesterol checked, the proportion who had been told by a health professional that their cholesterol was high.									

<b>Bicycle Helmet Use</b> Children in Household Ages 5 to 15 <sup>1</sup> Michigan, 1999 (in percentages with 95% confidence interval limits)			
Demographic Characteristics	Oldest Child Does Not Always Wear a Bicycle Helmet <sup>2</sup>		
<b>TOTAL</b>	<b>73.9</b>	<b>±</b>	<b>3.6</b>
<b>RACE</b>			
White	72.8	±	4.1
Black	81.3	±	8.2
<b>EDUCATION</b>			
Less than High School	80.7	±	14.0
High School Graduate	76.5	±	5.9
Some College	80.0	±	5.7
College Graduate	60.6	±	7.8
<b>HOUSEHOLD INCOME</b>			
<\$20,000	80.1	±	10.3
\$20,000-34,999	83.3	±	6.7
\$35,000-49,999	72.3	±	9.1
\$50,000-74,999	69.4	±	8.0
≥\$75,000	68.7	±	8.9
<sup>1</sup> n=656 respondents with a child in the household between the ages of 5 and 15. <sup>2</sup> Proportion of respondents who reported that the oldest child in the household between the ages of 5 and 15 did not always wear a bicycle helmet when riding a bicycle.			

<b>Smoke Detector Testing</b> Michigan Adults, 1999 (in percentages with 95% confidence interval limits)			
Demographic Characteristics	Tested Smoke Detector in Home Within Past Six Months <sup>1,2</sup>		
<b>TOTAL</b>	<b>70.1</b>	<b>±</b>	<b>2.0</b>
<b>AGE</b>			
18-24 Years	65.4	±	7.0
25-34 Years	70.9	±	4.5
35-44 Years	72.7	±	4.1
45-54 Years	67.4	±	4.9
55-64 Years	71.0	±	5.9
65-74 Years	73.3	±	6.0
75+ Years	67.3	±	7.4
<b>RACE</b>			
White	70.3	±	2.2
Black	68.8	±	6.1
<b>EDUCATION</b>			
Less than High School	74.3	±	6.4
High School Graduate	70.9	±	3.6
Some College	73.1	±	3.6
College Graduate	64.0	±	4.0
<b>HOUSEHOLD INCOME</b>			
<\$20,000	68.6	±	5.4
\$20,000-34,999	72.1	±	4.1
\$35,000-49,999	74.8	±	4.7
\$50,000-74,999	72.0	±	4.9
≥\$75,000	60.0	±	5.9
<sup>1</sup> Proportion of respondents who reported that they or someone else had deliberately tested all smoke detectors in the home within the past six months. <sup>2</sup> Proportion who reported that they did not have smoke detectors in their home [2.1± 0.6].			



Alcohol Use Michigan Adults, 1999 (in percentages with 95% confidence interval limits)						
Demographic Characteristics	Consumed Any Alcohol in Past Month <sup>1</sup>			Heavy Drinking <sup>2</sup>		
<b>TOTAL</b>	<b>59.0</b>	<b>±</b>	<b>2.1</b>	<b>5.3</b>	<b>±</b>	<b>1.0</b>
<b>AGE</b>						
18-24 Years	71.1	±	6.0	9.8	±	4.1
25-34 Years	65.5	±	4.6	5.4	±	2.3
35-44 Years	64.1	±	4.3	4.5	±	2.2
45-54 Years	59.6	±	4.9	5.4	±	2.6
55-64 Years	51.1	±	6.2	4.0	±	2.3
65-74 Years	45.9	±	6.5	4.6	±	2.8
75+ Years	34.0	±	7.0	2.7	±	2.3
<b>GENDER</b>						
Male	67.5	±	3.1	9.5	±	2.0
Female	51.2	±	2.8	1.4	±	0.7
<b>RACE</b>						
White	61.2	±	2.3	5.7	±	1.2
Black	46.9	±	6.3	4.0	±	2.7
<b>EDUCATION</b>						
Less than High School	41.3	±	6.9	6.3	±	3.6
High School Graduate	55.8	±	3.7	6.5	±	2.1
Some College	60.6	±	3.8	5.0	±	1.8
College Graduate	68.0	±	3.8	3.9	±	1.6
<b>HOUSEHOLD INCOME</b>						
<\$20,000	47.6	±	5.4	5.1	±	2.5
\$20,000-34,999	56.0	±	4.4	6.2	±	2.3
\$35,000-49,999	62.2	±	5.2	5.4	±	2.8
\$50,000-74,999	64.5	±	5.1	5.6	±	2.5
\$75,000	75.4	±	4.9	4.1	±	2.5
<sup>1</sup> Proportion of respondents who reported having had at least one alcoholic drink in the past month. <sup>2</sup> Heavy drinking was defined as sixty or more alcoholic beverages on average consumed in the past month.						

Alcohol Use Michigan Adults, 1999 (in percentages with 95% confidence interval limits)						
Demographic Characteristics	Consumed Any Alcohol in Past Month <sup>1</sup>			Heavy Drinking <sup>2</sup>		
<b>TOTAL</b>	<b>59.0</b>	<b>±</b>	<b>2.1</b>	<b>5.3</b>	<b>±</b>	<b>1.0</b>
<b>AGE</b>						
18-24 Years	71.1	±	6.0	9.8	±	4.1
25-34 Years	65.5	±	4.6	5.4	±	2.3
35-44 Years	64.1	±	4.3	4.5	±	2.2
45-54 Years	59.6	±	4.9	5.4	±	2.6
55-64 Years	51.1	±	6.2	4.0	±	2.3
65-74 Years	45.9	±	6.5	4.6	±	2.8
75+ Years	34.0	±	7.0	2.7	±	2.3
<b>GENDER</b>						
Male	67.5	±	3.1	9.5	±	2.0
Female	51.2	±	2.8	1.4	±	0.7
<b>RACE</b>						
White	61.2	±	2.3	5.7	±	1.2
Black	46.9	±	6.3	4.0	±	2.7
<b>EDUCATION</b>						
Less than High School	41.3	±	6.9	6.3	±	3.6
High School Graduate	55.8	±	3.7	6.5	±	2.1
Some College	60.6	±	3.8	5.0	±	1.8
College Graduate	68.0	±	3.8	3.9	±	1.6
<b>HOUSEHOLD INCOME</b>						
<\$20,000	47.6	±	5.4	5.1	±	2.5
\$20,000-34,999	56.0	±	4.4	6.2	±	2.3
\$35,000-49,999	62.2	±	5.2	5.4	±	2.8
\$50,000-74,999	64.5	±	5.1	5.6	±	2.5
\$75,000	75.4	±	4.9	4.1	±	2.5
<sup>1</sup> Proportion of respondents who reported having had at least one alcoholic drink in the past month. <sup>2</sup> Heavy drinking was defined as sixty or more alcoholic beverages on average consumed in the past month.						

Alcohol Use Michigan Adults, 1999 (in percentages with 95% confidence interval limits)						
Demographic Characteristics	Consumed Any Alcohol in Past Month <sup>1</sup>			Heavy Drinking <sup>2</sup>		
<b>TOTAL</b>	<b>59.0</b>	<b>±</b>	<b>2.1</b>	<b>5.3</b>	<b>±</b>	<b>1.0</b>
<b>AGE</b>						
18-24 Years	71.1	±	6.0	9.8	±	4.1
25-34 Years	65.5	±	4.6	5.4	±	2.3
35-44 Years	64.1	±	4.3	4.5	±	2.2
45-54 Years	59.6	±	4.9	5.4	±	2.6
55-64 Years	51.1	±	6.2	4.0	±	2.3
65-74 Years	45.9	±	6.5	4.6	±	2.8
75+ Years	34.0	±	7.0	2.7	±	2.3
<b>GENDER</b>						
Male	67.5	±	3.1	9.5	±	2.0
Female	51.2	±	2.8	1.4	±	0.7
<b>RACE</b>						
White	61.2	±	2.3	5.7	±	1.2
Black	46.9	±	6.3	4.0	±	2.7
<b>EDUCATION</b>						
Less than High School	41.3	±	6.9	6.3	±	3.6
High School Graduate	55.8	±	3.7	6.5	±	2.1
Some College	60.6	±	3.8	5.0	±	1.8
College Graduate	68.0	±	3.8	3.9	±	1.6
<b>HOUSEHOLD INCOME</b>						
<\$20,000	47.6	±	5.4	5.1	±	2.5
\$20,000-34,999	56.0	±	4.4	6.2	±	2.3
\$35,000-49,999	62.2	±	5.2	5.4	±	2.8
\$50,000-74,999	64.5	±	5.1	5.6	±	2.5
\$75,000	75.4	±	4.9	4.1	±	2.5
<sup>1</sup> Proportion of respondents who reported having had at least one alcoholic drink in the past month. <sup>2</sup> Heavy drinking was defined as sixty or more alcoholic beverages on average consumed in the past month.						

Alcohol Use Michigan Adults, 1999 (in percentages with 95% confidence interval limits)						
Demographic Characteristics	Consumed Any Alcohol in Past Month <sup>1</sup>			Heavy Drinking <sup>2</sup>		
<b>TOTAL</b>	<b>59.0</b>	<b>±</b>	<b>2.1</b>	<b>5.3</b>	<b>±</b>	<b>1.0</b>
<b>AGE</b>						
18-24 Years	71.1	±	6.0	9.8	±	4.1
25-34 Years	65.5	±	4.6	5.4	±	2.3
35-44 Years	64.1	±	4.3	4.5	±	2.2
45-54 Years	59.6	±	4.9	5.4	±	2.6
55-64 Years	51.1	±	6.2	4.0	±	2.3
65-74 Years	45.9	±	6.5	4.6	±	2.8
75+ Years	34.0	±	7.0	2.7	±	2.3
<b>GENDER</b>						
Male	67.5	±	3.1	9.5	±	2.0
Female	51.2	±	2.8	1.4	±	0.7
<b>RACE</b>						
White	61.2	±	2.3	5.7	±	1.2
Black	46.9	±	6.3	4.0	±	2.7
<b>EDUCATION</b>						
Less than High School	41.3	±	6.9	6.3	±	3.6
High School Graduate	55.8	±	3.7	6.5	±	2.1
Some College	60.6	±	3.8	5.0	±	1.8
College Graduate	68.0	±	3.8	3.9	±	1.6
<b>HOUSEHOLD INCOME</b>						
<\$20,000	47.6	±	5.4	5.1	±	2.5
\$20,000-34,999	56.0	±	4.4	6.2	±	2.3
\$35,000-49,999	62.2	±	5.2	5.4	±	2.8
\$50,000-74,999	64.5	±	5.1	5.6	±	2.5
\$75,000	75.4	±	4.9	4.1	±	2.5
<sup>1</sup> Proportion of respondents who reported having had at least one alcoholic drink in the past month. <sup>2</sup> Heavy drinking was defined as sixty or more alcoholic beverages on average consumed in the past month.						

Alcohol Use Michigan Adults, 1999 (in percentages with 95% confidence interval limits)						
Demographic Characteristics	Consumed Any Alcohol in Past Month <sup>1</sup>			Heavy Drinking <sup>2</sup>		
<b>TOTAL</b>	<b>59.0</b>	<b>±</b>	<b>2.1</b>	<b>5.3</b>	<b>±</b>	<b>1.0</b>
<b>AGE</b>						
18-24 Years	71.1	±	6.0	9.8	±	4.1
25-34 Years	65.5	±	4.6	5.4	±	2.3
35-44 Years	64.1	±	4.3	4.5	±	2.2
45-54 Years	59.6	±	4.9	5.4	±	2.6
55-64 Years	51.1	±	6.2	4.0	±	2.3
65-74 Years	45.9	±	6.5	4.6	±	2.8
75+ Years	34.0	±	7.0	2.7	±	2.3
<b>GENDER</b>						
Male	67.5	±	3.1	9.5	±	2.0
Female	51.2	±	2.8	1.4	±	0.7
<b>RACE</b>						
White	61.2	±	2.3	5.7	±	1.2
Black	46.9	±	6.3	4.0	±	2.7
<b>EDUCATION</b>						
Less than High School	41.3	±	6.9	6.3	±	3.6
High School Graduate	55.8	±	3.7	6.5	±	2.1
Some College	60.6	±	3.8	5.0	±	1.8
College Graduate	68.0	±	3.8	3.9	±	1.6
<b>HOUSEHOLD INCOME</b>						
<\$20,000	47.6	±	5.4	5.1	±	2.5
\$20,000-34,999	56.0	±	4.4	6.2	±	2.3
\$35,000-49,999	62.2	±	5.2	5.4	±	2.8
\$50,000-74,999	64.5	±	5.1	5.6	±	2.5
\$75,000	75.4	±	4.9	4.1	±	2.5
<sup>1</sup> Proportion of respondents who reported having had at least one alcoholic drink in the past month. <sup>2</sup> Heavy drinking was defined as sixty or more alcoholic beverages on average consumed in the past month.						

Alcohol Use Michigan Adults, 1999 (in percentages with 95% confidence interval limits)						
Demographic Characteristics	Consumed Any Alcohol in Past Month <sup>1</sup>			Heavy Drinking <sup>2</sup>		
<b>TOTAL</b>	<b>59.0</b>	<b>±</b>	<b>2.1</b>	<b>5.3</b>	<b>±</b>	<b>1.0</b>
<b>AGE</b>						
18-24 Years	71.1	±	6.0	9.8	±	4.1
25-34 Years	65.5	±	4.6	5.4	±	2.3
35-44 Years	64.1	±	4.3	4.5	±	2.2
45-54 Years	59.6	±	4.9	5.4	±	2.6
55-64 Years	51.1	±	6.2	4.0	±	2.3
65-74 Years	45.9	±	6.5	4.6	±	2.8
75+ Years	34.0	±	7.0	2.7	±	2.3
<b>GENDER</b>						
Male	67.5	±	3.1	9.5	±	2.0
Female	51.2	±	2.8	1.4	±	0.7
<b>RACE</b>						
White	61.2	±	2.3	5.7	±	1.2
Black	46.9	±	6.3	4.0	±	2.7
<b>EDUCATION</b>						
Less than High School	41.3	±	6.9	6.3	±	3.6
High School Graduate	55.8	±	3.7	6.5	±	2.1
Some College	60.6	±	3.8	5.0	±	1.8
College Graduate	68.0	±	3.8	3.9	±	1.6
<b>HOUSEHOLD INCOME</b>						
<\$20,000	47.6	±	5.4	5.1	±	2.5
\$20,000-34,999	56.0	±	4.4	6.2	±	2.3
\$35,000-49,999	62.2	±	5.2	5.4	±	2.8
\$50,000-74,999	64.5	±	5.1	5.6	±	2.5
\$75,000	75.4	±	4.9	4.1	±	2.5
<sup>1</sup> Proportion of respondents who reported having had at least one alcoholic drink in the past month. <sup>2</sup> Heavy drinking was defined as sixty or more alcoholic beverages on average consumed in the past month.						



<b>Colorectal Cancer</b> Adults 50 Years of Age and Older <sup>1</sup> Michigan, 1999 (in percentages with 95% confidence interval limits)				
Demographic Characteristics	Ever Had Blood Stool Test <sup>2</sup>	Had Blood Stool Test in Past Year <sup>3</sup>	Ever Had Sigmoidoscopy/Colonoscopy <sup>4</sup>	Had Sigmoidoscopy/Colonoscopy Test in Past Five Years <sup>5</sup>
<b>TOTAL</b>	<b>50.2 ± 3.4</b>	<b>24.2 ± 3.0</b>	<b>49.7 ± 3.5</b>	<b>40.0 ± 3.4</b>
<b>AGE</b>				
50-59 Years	42.8 ± 5.5	21.5 ± 4.5	40.5 ± 5.5	32.0 ± 5.2
60-69 Years	56.3 ± 6.6	26.8 ± 5.8	55.1 ± 6.5	43.5 ± 6.6
70+ Years	54.5 ± 5.8	25.5 ± 5.3	56.6 ± 5.8	47.0 ± 6.0
<b>GENDER</b>				
Male	48.4 ± 5.4	26.8 ± 5.8	57.6 ± 5.4	49.1 ± 5.5
Female	51.7 ± 4.4	25.5 ± 5.3	43.4 ± 4.4	32.7 ± 4.2
<b>RACE</b>				
White	51.0 ± 3.6	23.8 ± 3.1	50.3 ± 3.7	40.4 ± 3.6
Black	44.1 ± 11.9	25.3 ± 10.6	45.6 ± 11.9	37.7 ± 11.5
<b>EDUCATION</b>				
Less than High School	44.8 ± 9.1	25.2 ± 8.0	47.7 ± 9.2	38.4 ± 8.9
High School Graduate	45.0 ± 5.7	21.3 ± 4.6	42.8 ± 5.7	34.3 ± 5.5
Some College	57.3 ± 6.7	27.2 ± 6.3	54.0 ± 6.8	41.8 ± 6.8
College Graduate	54.0 ± 7.0	25.0 ± 5.9	56.6 ± 7.0	47.3 ± 7.1
<b>HOUSEHOLD INCOME</b>				
<\$20,000	44.0 ± 7.5	20.5 ± 6.2	52.1 ± 7.6	38.4 ± 7.4
\$20,000-34,999	56.4 ± 6.6	27.8 ± 5.9	51.4 ± 6.7	43.0 ± 6.6
\$35,000-49,999	49.7 ± 9.8	26.0 ± 8.5	53.9 ± 9.8	44.0 ± 9.7
\$50,000-74,999	44.9 ± 10.1	23.6 ± 8.6	36.0 ± 9.5	30.8 ± 9.1
\$75,000	56.0 ± 10.4	28.3 ± 9.3	52.7 ± 10.4	42.9 ± 10.5
<sup>1</sup> n=969 adults aged 50 years and older. <sup>2</sup> Proportion of respondents aged 50 or older who reported ever having had a blood stool test using a home kit. "A blood stool test is a test that may use a special kit at home to determine whether the stool contains blood. Have you ever had this test using a home kit?" <sup>3</sup> Proportion of respondents aged 50 and older who reported having taken a blood stool test using a home kit within the past year. <sup>4</sup> Proportion of respondents aged 50 or older who reported ever having had a sigmoidoscopy or colonoscopy. "A sigmoidoscopy or colonoscopy is when a tube is inserted in the rectum to view the bowel for signs of cancer and other health problems. Have you ever had this exam?" <sup>5</sup> Proportion of respondents aged 50 and older who reported having had a sigmoidoscopy or colonoscopy examination within the past five years.				



<b>Prostate Cancer</b> Adult Males 50 Years of Age and Older <sup>1</sup> Michigan, 1999 (in percentages with 95% confidence interval limits)	
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Demographic Characteristics	Discussed PSA Testing with Doctor <sup>2</sup>	Ever Had PSAtest <sup>3</sup>
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<b>TOTAL</b>	<b>51.5</b>	<b>±</b>	<b>5.7</b>	<b>58.5</b>	<b>±</b>	<b>5.8</b>
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<b>AGE</b>						
50-59 Y.	47.7	+	9.5	49.1	+	9.7

50-59 Years	47.7	±	8.5	49.1	±	8.7
60-69 Years	65.0	±	10.7	74.8	±	9.9
70+ Years	46.1	±	10.6	61.5	±	10.5

<b>EDUCATION</b>		
Level of Education	47.9%	8.7%
	55.9%	9.0%

Less than High School or High School Graduate	47.2	±	8.7	55.2	±	9.0
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Some College or College Graduate	55.1	±	7.6	61.2	±	7.5
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<b>HOUSEHOLD INCOME</b>		
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<\$35,000	43.8	±	8.7	57.2	±	9.1
\$35,000 +	58.8	±	8.3	60.2	±	8.3

<sup>1</sup> n=396 adult males aged 50 years and older who had never been told they had prostate cancer.

<sup>2</sup> A PSA test or prostate specific antigen test is a blood test that is used to help detect prostate cancer in men before they show any symptoms. “Have you and your doctor ever discussed the benefits and risks of using

<sup>3</sup> “Have you ever had a PSA test?”

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<b>Skin Cancer Indicator</b> Michigan Adults, 1999 (in percentages with 95% confidence interval limits)			
Demographic Characteristics	Had a Sunburn in Past Year <sup>1</sup>		
<b>TOTAL</b>	<b>41.2</b>	<b>±</b>	<b>2.1</b>
<b>AGE</b>			
18-24 Years	62.8	±	6.4
25-34 Years	55.6	±	4.8
35-44 Years	50.9	±	4.5
45-54 Years	37.9	±	4.9
55-64 Years	26.0	±	5.4
65-74 Years	15.4	±	4.8
75+ Years	3.5	±	2.7
<b>GENDER</b>			
Male	46.1	±	3.3
Female	36.8	±	2.7
<b>RACE</b>			
White	47.4	±	2.3
Black	4.4	±	2.5
<b>EDUCATION</b>			
Less than High School	24.7	±	6.2
High School Graduate	38.9	±	3.7
Some College	45.0	±	3.9
College Graduate	46.2	±	4.0
<b>HOUSEHOLD INCOME</b>			
<\$20,000	27.8	±	5.0
\$20,000-34,999	37.3	±	4.3
\$35,000-49,999	46.3	±	5.3
\$50,000-74,999	54.6	±	5.3
\$75,000	53.5	±	5.8
<sup>1</sup> Proportion of respondents who reported that they had a sunburn in the past year.			

<b>Number of Sunburns in Past Year<sup>1</sup></b> Michigan Adults, 1999 (in percentages with 95% confidence interval limits)									
Demographic Characteristics	One or Two Sunburns			Three or Four Sunburns			Five or More Sunburns		
<b>TOTAL</b>	<b>61.4</b>	±	<b>3.4</b>	<b>20.1</b>	±	<b>2.8</b>	<b>16.5</b>	±	<b>2.6</b>
<b>AGE</b>									
18-34 Years	55.7	±	5.3	23.2	±	4.4	21.1	±	4.4
35-54 Years	66.2	±	4.8	20.0	±	4.1	11.8	±	3.5
55+ Years	66.7	±	9.4	17.8	±	7.3	15.5	±	7.9
<b>GENDER</b>									
Male	58.9	±	4.9	22.0	±	4.0	19.1	±	4.0
Female	64.3	±	4.5	22.2	±	3.8	13.5	±	3.3
<b>EDUCATION</b>									
Less than High School or High School Graduate	64.8	±	5.5	19.9	±	4.5	15.3	±	4.3
Some College or College Graduate	59.4	±	3.4	23.3	±	3.6	17.3	±	3.4
<b>HOUSEHOLD INCOME</b>									
<\$35,000	60.3	±	6.1	20.3	±	4.8	19.4	±	5.1
\$35,000 +	60.6	±	4.4	23.8	±	3.7	15.6	±	3.4

<sup>1</sup> Of those respondents who reported having had a sunburn in the past year (n=999).

<b>Stroke Knowledge and Awareness</b> <b>Identification of Risk Factors<sup>1</sup></b> Michigan Adults, 1999 (in percentages with 95% confidence interval limits)				
Demographic Characteristics	No Correct Risk Factors	One Correct Risk Factor	Two Correct Risk Factors	Three Correct Risk Factors
<b>TOTAL</b>	<b>35.0 ± 2.1</b>	<b>40.4 ± 2.1</b>	<b>21.7 ± 1.8</b>	<b>2.9 ± 0.7</b>
<b>AGE</b>				
18-24 Years	52.4 ± 6.8	32.4 ± 6.3	13.5 ± 4.7	1.7 ± 1.6
25-34 Years	39.9 ± 4.6	41.6 ± 4.8	18.3 ± 3.8	5.2 ± 2.2
35-44 Years	30.9 ± 4.2	45.0 ± 4.5	21.8 ± 3.7	2.3 ± 1.3
45-54 Years	28.0 ± 4.6	41.5 ± 5.0	26.8 ± 4.6	3.7 ± 1.8
55-64 Years	27.9 ± 5.6	41.5 ± 6.1	27.6 ± 5.5	3.0 ± 2.3
65-74 Years	36.5 ± 6.4	34.9 ± 6.3	26.7 ± 5.9	1.9 ± 1.5
75+ Years	44.4 ± 7.7	38.9 ± 7.6	16.7 ± 6.1	0.0 ± 0.0
<b>GENDER</b>				
Male	37.3 ± 3.2	39.6 ± 3.3	20.4 ± 2.7	2.7 ± 1.0
Female	33.1 ± 2.6	41.0 ± 2.7	22.8 ± 2.3	3.1 ± 1.0
<b>RACE</b>				
White	33.1 ± 2.2	41.7 ± 2.3	22.2 ± 1.9	3.0 ± 0.8
Black	45.3 ± 6.4	32.5 ± 5.9	20.1 ± 5.1	2.1 ± 1.8
<b>EDUCATION</b>				
Less than High School	46.6 ± 7.1	32.0 ± 6.6	20.2 ± 5.9	1.2 ± 1.4*
High School Graduate	42.9 ± 3.8	37.3 ± 3.7	18.6 ± 2.9	1.2 ± 0.8
Some College	31.8 ± 3.7	43.3 ± 3.9	20.3 ± 3.2	4.6 ± 1.6
College Graduate	25.0 ± 3.5	43.7 ± 4.1	27.5 ± 3.6	3.8 ± 1.6
<b>HOUSEHOLD INCOME</b>				
<\$20,000	46.4 ± 5.4	33.6 ± 5.1	18.1 ± 4.4	1.9 ± 1.3
\$20,000-34,999	39.6 ± 4.4	42.2 ± 4.4	15.8 ± 3.2	2.4 ± 1.2
\$35,000-49,999	29.8 ± 4.9	41.1 ± 5.3	25.5 ± 4.6	3.6 ± 1.8
\$50,000-74,999	28.6 ± 4.9	39.1 ± 5.2	27.1 ± 4.6	5.2 ± 2.5
\$75,000	29.6 ± 5.3	41.7 ± 5.7	25.2 ± 5.0	3.5 ± 2.2
<sup>1</sup> Proportion of respondents who were able to identify no, one, two, or three important risk factors for stroke. “From anything that you have heard or read, what do you think are the three most important risk factors for stroke, that is things which make it more likely that someone will have a stroke?” Correct risk factors included: high blood pressure, smoking, diabetes, age, race, gender, heart disease, and high cholesterol. * Confidence interval (95%) exceeds range of possible estimates.				

**Stroke Knowledge and Awareness**  
**Identification of Warning Signs That Stroke has Occured<sup>1</sup>**

Michigan Adults, 1999

(in percentages with 95% confidence interval limits)

Demographic Characteristics	No Correct Warning Signs	One Correct Warning Sign	Two Correct Warning Signs	Three Correct Warning Signs
<b>TOTAL</b>	<b>30.7 ± 2.0</b>	<b>24.8 ± 1.9</b>	<b>30.2 ± 2.0</b>	<b>14.3 ± 1.5</b>
<b>AGE</b>				
18-24 Years	57.8 ± 6.7	25.1 ± 5.9	13.4 ± 4.5	3.7 ± 2.1
25-34 Years	28.5 ± 4.4	26.9 ± 4.4	31.2 ± 4.6	13.4 ± 3.3
35-44 Years	28.4 ± 4.1	23.5 ± 3.8	34.0 ± 4.3	14.1 ± 3.1
45-54 Years	22.1 ± 4.3	23.0 ± 4.4	33.8 ± 4.8	21.1 ± 4.2
55-64 Years	22.2 ± 5.4	21.9 ± 5.2	36.8 ± 6.0	19.1 ± 4.8
65-74 Years	25.1 ± 5.7	28.4 ± 6.0	28.2 ± 5.9	18.3 ± 5.4
75+ Years	37.0 ± 7.5	26.6 ± 7.0	28.6 ± 7.1	7.8 ± 4.1
<b>GENDER</b>				
Male	35.1 ± 3.2	25.3 ± 2.9	27.4 ± 3.0	12.2 ± 2.1
Female	26.6 ± 2.5	24.3 ± 2.4	32.8 ± 2.6	16.3 ± 2.0
<b>RACE</b>				
White	29.2 ± 2.2	25.0 ± 2.1	30.8 ± 2.2	15.0 ± 1.6
Black	37.4 ± 6.2	24.4 ± 5.4	27.9 ± 5.7	10.3 ± 3.8
<b>EDUCATION</b>				
Less than High School	39.1 ± 7.1	28.9 ± 6.4	22.7 ± 6.0	9.3 ± 4.1
High School Graduate	39.3 ± 3.7	25.7 ± 3.3	25.9 ± 3.3	9.1 ± 2.1
Some College	27.9 ± 3.6	26.7 ± 3.5	26.7 ± 3.5	16.7 ± 2.8
College Graduate	20.1 ± 3.2	20.1 ± 3.3	39.8 ± 4.0	20.0 ± 3.2
<b>HOUSEHOLD INCOME</b>				
<\$20,000	38.6 ± 5.3	23.7 ± 4.6	28.3 ± 4.8	9.4 ± 3.0
\$20,000-34,999	35.1 ± 4.4	25.8 ± 3.9	27.0 ± 3.9	12.1 ± 2.8
\$35,000-49,999	27.9 ± 4.8	24.6 ± 4.7	32.7 ± 5.0	14.8 ± 3.6
\$50,000-74,999	23.2 ± 4.6	23.7 ± 4.5	36.0 ± 5.1	17.1 ± 3.9
\$75,000	23.4 ± 5.0	21.3 ± 4.7	32.0 ± 5.4	23.3 ± 5.0

<sup>1</sup> Proportion of respondents who were able to identify no, one, two, or three warning signs for stroke. “ From anything you have heard or read, what do you think are the three most important signs of stroke?” Correct warning signs included: severe headache, dizziness, problems with vision, slurred speech, disorientation, difficulty understanding, weakness or numbness, especially on one side.

<b>Stroke Knowledge and Awareness</b> <b>First Response to Stroke<sup>1</sup></b> Michigan Adults, 1999 (in percentages with 95% confidence interval limits)				
Demographic Characteristics	Call 911 or Take Them to The Emergency Room	Call Their Doctor or Take Them to Their Doctor	Other Incorrect Response <sup>2</sup>	Don't Know
<b>TOTAL</b>	<b>83.8 ± 1.6</b>	<b>2.9 ± 0.7</b>	<b>9.8 ± 1.3</b>	<b>3.5 ± 0.8</b>
<b>AGE</b>				
18-24 Years	85.3 ± 4.9	1.1 ± 1.1	9.4 ± 4.0	4.2 ± 2.8
25-34 Years	88.3 ± 3.2	1.5 ± 1.1	7.7 ± 2.6	2.5 ± 1.5
35-44 Years	86.9 ± 3.0	1.9 ± 1.2	9.2 ± 2.6	2.0 ± 1.3
45-54 Years	81.0 ± 4.0	3.5 ± 1.8	11.3 ± 3.2	4.2 ± 2.2
55-64 Years	81.0 ± 4.9	5.1 ± 2.7	9.8 ± 3.7	4.1 ± 2.4
65-74 Years	80.4 ± 5.2	4.4 ± 2.5	12.1 ± 4.4	3.1 ± 2.2
75+ Years	74.8 ± 6.5	6.4 ± 3.6	11.5 ± 4.5	7.3 ± 4.3
<b>GENDER</b>				
Male	79.7 ± 2.6	2.7 ± 1.0	12.8 ± 2.2	4.8 ± 1.5
Female	87.4 ± 1.8	3.2 ± 0.9	7.1 ± 1.4	2.3 ± 0.8
<b>RACE</b>				
White	84.7 ± 1.7	2.8 ± 0.7	9.7 ± 1.4	2.8 ± 0.8
Black	78.8 ± 5.2	3.1 ± 2.3	10.8 ± 3.7	7.3 ± 3.5
<b>EDUCATION</b>				
Less than High School	75.5 ± 6.2	2.2 ± 1.7	14.3 ± 5.1	8.0 ± 4.0
High School Graduate	83.3 ± 2.8	3.4 ± 1.3	9.3 ± 2.2	4.0 ± 1.6
Some College	87.1 ± 2.6	2.7 ± 1.2	7.8 ± 2.1	2.4 ± 1.2
College Graduate	83.8 ± 3.0	2.9 ± 1.3	10.8 ± 2.5	2.5 ± 1.3
<b>HOUSEHOLD INCOME</b>				
<\$20,000	80.3 ± 4.2	4.0 ± 1.9	9.4 ± 3.0	6.3 ± 2.8
\$20,000-34,999	82.2 ± 3.5	2.0 ± 1.2	11.6 ± 2.9	4.2 ± 1.9
\$35,000-49,999	84.0 ± 3.9	3.3 ± 1.8	9.2 ± 3.2	3.5 ± 1.9
\$50,000-74,999	86.8 ± 3.7	1.9 ± 1.5	8.9 ± 3.0	2.4 ± 1.8
\$75,000	86.7 ± 3.8	3.9 ± 2.1	8.8 ± 3.2	0.6 ± 0.8*
<sup>1</sup> “If you thought someone were having a stroke, what would you do first?” Some response categories were combined. <sup>2</sup> Responses that did not match designated categories but were determined to be incorrect actions. * Confidence Interval (95%) exceeds range of possible estimates.				

**Stroke Knowledge and Awareness**  
**Timeliness of Medical Treatment for Stroke<sup>1</sup>**

Michigan Adults, 1999

(in percentages with 95% confidence interval limits)

Demographic Characteristics	Immediately	Not Immediately	Don't Know
<b>TOTAL</b>	<b>89.3 ± 1.4</b>	<b>6.5 ± 1.1</b>	<b>4.2 ± 0.9</b>
<b>AGE</b>			
18-24 Years	87.1 ± 4.8	7.7 ± 3.3	5.2 ± 3.3
25-34 Years	91.1 ± 2.8	5.8 ± 1.7	3.1 ± 1.7
35-44 Years	89.4 ± 2.7	7.7 ± 1.4	2.9 ± 1.4
45-54 Years	89.7 ± 3.0	6.6 ± 1.9	3.7 ± 1.9
55-64 Years	90.0 ± 3.8	6.0 ± 2.5	4.0 ± 2.5
65-74 Years	91.1 ± 3.5	3.9 ± 2.7	5.0 ± 2.7
75+ Years	84.2 ± 5.7	5.6 ± 4.6	4.6 ± 4.6
<b>GENDER</b>			
Male	87.6 ± 2.2	6.6 ± 1.6	5.8 ± 1.5
Female	90.9 ± 1.6	6.3 ± 1.4	2.8 ± 0.9
<b>RACE</b>			
White	89.5 ± 1.5	6.8 ± 1.2	3.7 ± 0.9
Black	89.0 ± 4.0	4.2 ± 2.8	6.8 ± 3.1
<b>EDUCATION</b>			
Less than High School	89.2 ± 4.6	2.7 ± 2.4	8.1 ± 4.0
High School Graduate	88.6 ± 2.4	5.6 ± 1.7	5.8 ± 1.8
Some College	90.0 ± 2.4	7.6 ± 2.2	2.4 ± 1.2
College Graduate	89.4 ± 2.5	7.6 ± 2.1	3.0 ± 1.3
<b>HOUSEHOLD INCOME</b>			
<\$20,000	88.2 ± 3.7	4.7 ± 2.5	7.1 ± 2.9
\$20,000-34,999	90.6 ± 2.6	6.0 ± 2.1	3.4 ± 1.6
\$35,000-49,999	89.4 ± 3.3	8.8 ± 3.1	1.8 ± 1.4
\$50,000-74,999	88.6 ± 3.5	7.3 ± 2.8	4.1 ± 2.2
\$75,000	91.8 ± 3.0	6.9 ± 2.7	1.3 ± 1.3
<sup>1</sup> “How long after a person first shows signs of a stroke do you think they should receive medical treatment?”			